2023/2024 RADON PROFESSIONAL'S FAN GUIDE



FAN SELECTION SPECIFICATIONS AND GUIDELINES With Fan Replacement Guide

This handy 4-page guide is intended to make it easier for you to have RadonAway[®] fan specifications and our fan replacement chart at your fingertips where you need them, when you need them.

As always, we are committed to providing you with not only the highest quality radon mitigation products but also information to help you provide expert, effective professional radon services.

To request copies, contact your RadonAway Account Manager.









Regionant A





Use RP fans for quiet operation, energy efficiency and high air flow in porous sub-slab or sub-membrane materials consisting of about 4 inches of clean, size 4-6 gravel.



XP/XR Pro Series

Use XP/XR fans for compact size, lower pressure and average flow in very porous sub-slab/membrane materials consisting of 4 inches of clean, size 4-6 gravel.



LV175

The LV175 Low Voltage Radon Fan includes a power pack and cord for connecting to up to 120v AC power. No additional electrical work is required.



GX Series The GX Series fans will get the job

done when conditions call for power, reliability and quiet operation in moderate to tight sub-slab/membrane conditions.



GPc Pro Series

Use GPc fans for versatility and a broad performance range in moderate to tight sub-slab/sub-membrane conditions. Ideal choice when multiple suction points are necessary.



SF180

Use the SF180 for its low-profile design and moderate to good air flow in porous sub-slab or sub-membrane conditions ranging from about 4 inches of clean, size 4-6 gravel, to very loose soil.

	MODEL DAL FAN DUCT RRNC 2.0 RECOM. MAX OP. MAX.			ΜΔΥ	TYPICAL CFM vs. STATIC PRESSURE WC											FAN	SHIPPING				
MODEL	P/N	DIAMETER	RADON FAN TYPE	WATTS	PRESSURE "WC* Alt.>1,000ft. see NOTE	PRESSURE "WC		0"	.2"	.5"	1.0"	1.5"	2.0"	2.5"	3.0"	3.5"	4.0"	4.5"	5.0"	WEIGHT (lbs)	WEIGHT (lbs)
RP140[†]	28460	4"	RF1	17-21	0.70	0.78		138	110*	66*	-	-	-	-	-	-	-	-	-	4.5	6
RP145	28461	4"	RF1, RF2	34-66	1.7	2.1		169	150*	124*	81*	42	4	-	-	-	-	-	-	5.5	7
RP260	28462	6"	-	47-65	1.3	1.4		251	210*	157	70	-	-	-	-	-	-	-	-	5.5	8
RP265	28463	6"	-	96-136	2.3	2.4		375	340*	282*	204*	140	70	-	-	-	-	-	-	6.5	9
RP380	28464	8"	-	90-145	2.0	2.2		541	510*	461*	347*	235	107	-	-	-	-	-	-	11.5	12
XP151	28469	4"	RF1, RF2	53-70	1.4	1.5		167	151	127	77	-	-	-	-	-	-	-	-	4.9	6
XP201	28470	4"	RF1	38-74	1.6	1.7		126	115	98	60	26	-	-	-	-	-	-	-	5	6
XR261	23019-1	6"	-	67-117	1.6	1.7		217	190	149	87	27	-	-	-	-	-	-	-	5.7	8
LV175	28537	4"	RF1, RF2	30-75	1.9	2.1		216	200	176	135	90	45	-	-	-	-	-	-	5.5	7.5
GX3	28584	3"	-	60-135	3.3	3.5		-	-	-	96	86	72	57	40	-	-	-	-	7.6	10
GX4	28585	3"	-	74-158	4.8	5.3		-	-	-	-	-	-	84	74	63	53	41	-	8.1	10
GX5A	28536	4"	-	80-180	5.0	5.1		178	173	-	153	-	123	-	96	-	53	-	6	8.9	12
GP301c	28466	3"	-	56-100	2.3	2.5		-	-	-	64	54	41	4	-	-	-	-	-	9.8	12
GP501c	28468	3"	-	68-146	3.8	4.1		-	-	-	-	-	66	58	50	27	-	-	-	10	12
SF180	28317	3" or 4"	-	53-71	1.7	2.1		149	139	127	96	61	-	-	-	-	-	-	-	12.8	15
GP500	23003-1	3"	-	85-153	3.8	4.0		-	-	-	-	-	51	45	35	18	-	-	-	18	20
EC6	28625	6"	-	140-175	4.25	4.4		514	490*	451	381	330	271	211	152	101	49	-	-	6.5	8.25

*Denotes HVI certified values. † Denotes Energy Star® Rated.

		FAN DUCT DIAMETER	00550		RECOM.	MAX. PRESSURE "WC	TYPICAL CFM VS STATIC SUCTION WC								FAN	SHIPPING
MODEL	P/N		SPEED SETTING	WATTS	MAX OP. PRESSURE "WC		2.5"	5.0"	7.5"	10.0"	12.5"	15.0"	20.0"	25.0"	WEIGHT (lbs)	WEIGHT (lbs)
		3" inlet 2" outlet	Low	112-123	5"	7.8"	33	24	-	-	-	-	-	-		21.6
HS2750	28595		Med	199-245	10"	13.5"	47	42	34	25	-	-	-	-	18	
H32/50			High	266-337	15"	17.6"	-	-	47	43	33	23	-	-		
			Max	361-463	20"	22.6"	-	-	-	-	48	43	24	-		
MODEL	P/N	FAN DUCT DIAMETER	SPEED SETTING	WATTS	RECOM. MAX OP. PRESSURE "WC	MAX. PRESSURE "WC	5.0"	10.0"	20.0"	25.0"	30.0"	35.0"	40.0"	50.0"	FAN WEIGHT (Ibs)	SHIPPING WEIGHT (lbs)
	00506		Low	243-281	20"	24.5"	44	39	22	-	-	-	-	-		
HS5500		3" inlet 2" outlet	Med	372-477	30"	34.7"	-	53	41	36	22	-	-	-	19.25	22.0
10000	28596		High	527-625	40"	44.6"	-	-	-	45	39	31	22	-	19.20	22.9
			Max	591-632	50"	52.6"	-	-	-	-	-	34	29	17		

RRNC 2.0 ANSI/AARST Standard

Reducing Radon in New Construction

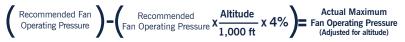
of 1 & 2 Family Dwellings and Townhouses

This chart displays the designated radon fan types recommended in the new standard.

*Radon Fan Types RF1 & RF2 minimum flow and pressure ratings are manufacturer specifications.

PIPE SIZE	TOTAL FOUNDATION AREA									
Nominal (I.D.)	< 1600 sq. feet	1600 to 2500 sq. feet	> 2500 sq. feet							
	< 149 sq. meters	149 to 232 sq. meters	> 232 sq. meters							
(3") [7.6 cm]	Use Radon Fan Type: RF1 <u>RF1 Minimum rating:</u> * 50 cfm @ 0.5" WC [85m ³ /hr @ 125 Pa]	Use Radon Fan Type: RF2 <u>RF2 Minimum rating:</u> * 75 cfm @ 1.0" WC [127m ³ /hr @ 250 Pa]	Radon fan to be sized by a certified/licensed radon mitigator.							
(4") [10 cm]	Use Radon Fan Type: RF1 RF1 Minimum rating:* 50 cfm @ 0.5" WC [85m ³ /hr @ 125 Pa]	Use Radon Fan Type: RF1 <u>RF1 Minimum rating:</u> * 50 cfm @ 0.5" WC [85m³/hr @ 125 Pa]	Radon fan to be sized by a certified/licensed radon mitigator.							

NOTE: This chart is based on airflow through the ducting of the fan. Every time you reduce the duct size, there is a 20% degradation of airflow. Airflow drops 4% every 1000 feet alt. You can calculate adjusted recommended maximum operating pressure based on the following formula: EXAMPLE: GP501 Fan Operating in Denver, CO at Elevation of 5280 ft





Use the EC6 variable-speed fan for applications where high suction and high flow are required. Ideal for high radon levels, poor sub-slab communication, multiple suction points and/or large sub slab footprint ..



Use HS fans in sand, clay or tight soil conditions when you need higher suction than an inline fan can provide.

 $\left(\frac{5,280 \text{ ft}}{1.000 \text{ ft}} \times 4\%\right) = \frac{3.0"}{\text{Actual WC}}$ 3.8" 3.8" X Recommended WC

RRNC

RADONAWAY FANS SUITABLE AS DESIGNATED BY RRNC 2.0 STANDARD

	FAN DUCT		RECOM. MAX.	ТҮР	ICAL CFM	RRNC 2.0			
MODEL	DDEL DIAM. WATTS	OP. PRESSURE "WC	0"	0" 0.2"		1.0"	1.5"	Radon Fan Type	
RP140 [†]	4"	14-19	0.6	152	120*	64*	-	-	RF1
RP145	4"	34-66	1.7	169	150*	124*	81*	42	RF1, RF2
XP151	4"	53-70	1.4	167	151	127	77	-	RF1, RF2
XP201	4"	38-74	1.6	126	115	98	60	26	RF1
LV175	4"	30-75	1.9	216	200	176	135	90	RF1, RF2

*Denotes HVI certified values. † Denotes Energy Star® Rated.

RadonAway [®] Replacement Fans									
	ORIGINALLY INSTALLED FAN	RadonAway® REPLACEMENT FAN							
	Rn4	GX4, GX5A, GP501c, EC6							
	R100, F100, FR100, HP2133, Rn1	RP140 or LV175							
	R150, F150, FR150, Rn3	XR261 or RP260							
Fantech	R160, F160, FR160, Rn2X	RP260 or RP265							
Fant	R175, F175, FR175	RP265							
	HP190, HP2190, Rn2, Rn2EC	RP145 or LV175							
	HP190SL, Rn2SL	SF180							
	HP220	RP265							
	Maverick Low Voltage	RP145, XP151, XP201, or LV175							
	Hawk Low Voltage	RP260 or XR261							
	Prowler Low Voltage	GX3, GP301c							
STA	Legend Low Voltage	RP265							
AMG/FESTA	Eagle	GX3, GX4, GP301c							
AMG	Eagle Extreme	GX4, GX5A, EC6							
	Legend Extreme	EC6							
	Goliath	RP260, GX4, GX5A, EC6							
	Force	RP260, GX4, GX5A, EC6							
	T1 Turbo 5 (Fiberglass)	XP201*, XP151*, or LV175							
Kanalflakt/ FanAmerica	T2 Turbo 6 (Fiberglass)	XR261 or RP260							
alfla Ame	K4 (Metal Kanalflakt)	RP140* or LV175							
Kar Fan	K4XL (Metal Kanalflakt)	XP201*, XP151*, or LV175							
	K6 (Metal Kanalflakt)	XR261 or RP260							
Rosenberg	R100	RP140* or LV175							
Rosei	R150	XR261 or RP260							